

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9589	heterodyn\$	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:28
L2	735764	interfer\$	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:28
L3	1078756	phase	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:04
L4	26422	frequency shift\$	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:29
L5	1459	1 and 2 and 3 and 4	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:18
L6	138	1 same 2 same 3 same 4	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:05
L7	43	6 and 356/484-490.ccls.	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:18
L8	44	6 and "356"/\$.ccls. not 7	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:10
L9	51	6 not (7 or 8)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:10
L10	664	1 same 2 and 3 and 4	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:14
L11	526	10 not 6	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:14
L12	135	11 and 356/484-490.ccls.	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:17
L13	20562	wavefront or wave-front or wave front	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:29
L14	263	1 and 2 and 3 and 4 and 13	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:18
L15	179	14 not (6 or 12)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:18
L16	5	15 and 356/484-490.ccls.	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:19
L17	66	15 and "356"/\$.ccls. not 16	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:22
L18	11	15 and "250"/\$.ccls. not (17 or 16)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:23
L19	0	15 and "355"/\$.ccls. not (17 or 16 or 18)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:23
L20	97	15 not (17 or 16 or 18)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:25
L21	1007	5 not (6 or 12 or 14)	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:26
L22	32	21 and weapon	US-PGPUB; USPAT	ADJ	ON	2006/01/13 08:26

L23	1676	heterodyn\$	EPO; JPO; IBM_TDB	ADJ	ON	2006/01/13 08:28
L24	84362	interfer\$	EPO; JPO; IBM_TDB	ADJ	ON	2006/01/13 08:28
L25	302379	phase	EPO; JPO; IBM_TDB	ADJ	ON	2006/01/13 08:28
L26	2968	frequency shift\$	EPO; JPO; IBM_TDB	ADJ	ON	2006/01/13 08:29
L27	2684	wavefront or wave-front or wave front	EPO; JPO; IBM_TDB	ADJ	ON	2006/01/13 08:29
L28	22	23 and 24 and 25 and 26	EPO; JPO; IBM_TDB	ADJ	ON	2006/01/13 08:29

Optics InfoBase

Published by The Optical Society of America

What's New

- **Jan 12 2006** : Journal of Optical Technology: Vol. 72, No. 11, is now available.
- **Jan 12 2006** : Journal of Optical Technology: Vol. 72, No. 12, is now available.
- **Jan 11 2006** : Applied Optics: Vol. 45, No. 2, is now available.
- [More News](#)

Search Optics InfoBase

If you need help, read our [search tips](#), or [browse by topic](#).

Abstract Keyword ▾	Matches ▾	heterodyne	And ▾
Abstract Keyword ▾	Matches ▾	interference	And ▾
Abstract Keyword ▾	Matches ▾	shifter	search

Single Year: **Year Range:** to **Volume:** **Issue:** **Page:** **OCIS Keywords:** **Journals:**☒ All Journals☐ JOSA A☐ JOSA B☐ Opt. Lett.☐ Optics Express☐ JOSA (1917-1983)☐ Applied Optics☐ J. Lightwave Technology☐ Journal of Optical Technology☐ Journal of Optical Networking☐ Optics and Photonics News☐ Journal of Display Technology☐ Chinese Optics Letters

Optics InfoBase

Published by The Optical Society of America

What's New

- **Jan 12 2006** : [Journal of Optical Technology: Vol. 72, No. 11](#), is now available.
- **Jan 12 2006** : [Journal of Optical Technology: Vol. 72, No. 12](#), is now available.
- **Jan 11 2006** : [Applied Optics: Vol. 45, No. 2](#), is now available.
- [More News](#)

Search Optics InfoBase

If you need help, read our [search tips](#), or [browse by topic](#).

Abstract Keyword ▾	Matches ▾	heterodyne	And ▾
Abstract Keyword ▾	Matches ▾	interference	And ▾
Abstract Keyword ▾	Matches ▾	phase	search

Single Year:

Year Range: to

Volume: **Issue:** **Page:**

OCIS Keywords:

Select OCIS Keywords And OCIS Keywords ▾

Journals:

☒ All Journals

☐ JOSA A

☐ JOSA B

☐ Opt. Lett.

☐ Optics Express

☐ JOSA (1917-1983)

☐ Applied Optics

☐ J. Lightwave Technology

☐ Journal of Optical Technology

☐ Journal of Optical Networking

☐ Optics and Photonics News

☐ Journal of Display Technology

☐ Chinese Optics Letters

Optics InfoBase

Published by The Optical Society of America

What's New

- **Jan 12 2006** : Journal of Optical Technology: Vol. 72, No. 11, is now available.
- **Jan 12 2006** : Journal of Optical Technology: Vol. 72, No. 12, is now available.
- **Jan 11 2006** : Applied Optics: Vol. 45, No. 2, is now available.
- [More News](#)

Search Optics InfoBase

If you need help, read our [search tips](#), or [browse by topic](#).

Abstract Keyword ▾	Matches ▾	heterodyne	And ▾
Abstract Keyword ▾	Matches ▾	interference	And ▾
Abstract Keyword ▾	Matches ▾	wavefront	search

Single Year:

Year Range: to

Volume: **Issue:** **Page:**

OCIS Keywords:

Select OCIS Keywords And OCIS Keywords ▾

Journals:

☒ All Journals

☐ JOSA A

☐ JOSA B

☐ Opt. Lett.

☐ Optics Express

☐ JOSA (1917-1983)

☐ Applied Optics

☐ J. Lightwave Technology

☐ Journal of Optical Technology

☐ Journal of Optical Networking

☐ Optics and Photonics News

☐ Journal of Display Technology

☐ Chinese Optics Letters



[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar Results 1 - 10 of about 77 for **heterodyne interference phase wavefront frequency shifter**. (0.08 seconds)

Sinusoidal **phase** modulating interferometry for surface profile measurement

O Sasaki, H Okazaki - 1986 - [ao.osa.org](#)

... 1. R. Crane, "**Interference Phase** Measurement," Appl. ... and DJ Brangaccio, "Digital **Wavefront** Measuring Interferometer ... Real-Time Digital **Heterodyne** Interferometry ...

Cited by 34 - [Web Search](#) - [ao.osa.org](#) - [aoot.osa.org](#) - [adsabs.harvard.edu](#)

Diode laser direct modulation **heterodyne** interferometer

K Tatsuno, Y Tsunoda - Applied Optics, 1987 - [ao.osa.org](#)

... wave moves from the initial **phase** position ... As a result, the **interference** fringe pattern scans by ... In this diode laser **heterodyne** interferometer, the **interference** ...

Cited by 27 - [Web Search](#) - [aoot.osa.org](#) - [adsabs.harvard.edu](#) - [csa.com](#) - all 6 versions »

Heterodyne interferometry with a **frequency**-modulated laser diode

J Chen, Y Ishii, K Murata - 1988 - [ao.osa.org](#)

... optical system and for locating the **interference** fringes ... and Results Using this digital **heterodyne** interferometer, some ... As an another example, the **phase** step on ...

Cited by 19 - [Web Search](#) - [ao.osa.org](#) - [aoot.osa.org](#) - [adsabs.harvard.edu](#)

New common-path **phase** shifting interferometer using a polarization technique

H Kadono, N Takai, T Asakura - Appl. Opt, 1987 - [ao.osa.org](#)

... also been reported for both **heterodyne** and **phase** ... subsection, we have outlined the **phase** shift- ing interferometer, in which the **interference** pattern is ...

Cited by 18 - [Web Search](#) - [ao.osa.org](#) - [aoot.osa.org](#) - [adsabs.harvard.edu](#)

Phase shifting interferometry in the presence of vibration- A new algorithm and system

P WIZINOWICH - Applied Optics, 1990 - [aoot.osa.org](#)

... sys- tem.' 1 The observed **interference** pattern was ... incorrect **phase** shifts, nonlinear **phase** shifts, detection ... **Heterodyne** interferometer systems are, in addition ...

Cited by 22 - [Web Search](#) - [ao.osa.org](#) - [adsabs.harvard.edu](#) - [csa.com](#) - all 6 versions »

... laser to Doppler-broadened spectrum of iodine molecules utilizing an acousto-optic **frequency shifter**

S Yokoyama, T Yokoyama, T Araki, T Hayashi, N ... - Measurement Science and Technology, 1998 - [iop.org](#)

... detected as an in-**phase** component of **heterodyne** beat signal ... of the **phase** change of the **interference** fringe ... **frequency** value (ν) determined by the **phase** change is ...

[Web Search](#) - [adsabs.harvard.edu](#) - [csa.com](#) - all 4 versions »

A Deformable Mirror-Based Optical Beamforming System for Phased Array Antennas

I INTRODUCTION - [ieeexplore.ieee.org](#)

... weight, lower loss, and immunity to **interference**. ... As a con- sequence, the **heterodyne** system described in ... Computerized **Phase** Control 5ignain Mirrored **Frequency** ...

[Web Search](#)

New Variable **Phase Shifter** Array using Resonator with Graded Reflectivity Mirror for Sngle-Conrol

BB Dingel, M Izutsu, I Introduction - [ieeexplore.ieee.org](#)

... 2 "] . (8) This **heterodyne** module performs ... the multiple-reflection **interference** effect inside a ... Voltage-Controlled Optical **Phase Shifter**", J. Lightwave ...

Cited by 1 - [Web Search](#) - [ieeexplore.ieee.org](#)

Shearing **heterodyne** interferometry using acoustooptic light modulators.